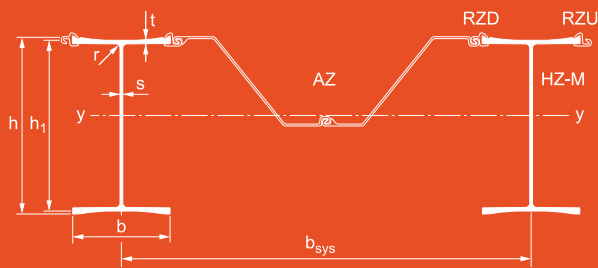


HZ[®] / AZ[®] combined wall system



The revolutionary HZ[®]-M wall is an extremely economical combined wall system launched in 2008 to replace the former HZ/AZ system, and consists of:

- HZ[®]-M king piles;
- a pair of AZ[®] sheet piles as intermediary elements;
- special connectors (RH, RZD, RZU).

The HZ-M king piles, with milled grooves on the flanges and thicknesses up to 40 mm, fulfill two different structural functions:

- retaining members for soil and hydrostatic pressures;
- bearing piles for vertical loads.

The combinations are based on the same principle: structural supports comprising 1 or 2 HZ-M king pile sections alternating with or without intermediary double AZ sheet pile sections. The intermediary sheet piles have a soil-retaining and load-transferring function and are generally shorter than the HZ-M king piles. Depending on the combinations and steel grades adopted, the achievable bending moment capacity lies above 21 000 kNm/m (W_x up to 46 500 cm³/m).

Section (Sol. 102)	Dimensions							Sectional area cm ²	Mass kg/m	Moment of inertia y-y cm ⁴	Elastic section modulus y-y cm ³	Coating area m ² /m	Connectors
	h mm	h ₁ mm	b mm	t _{max} mm	t mm	s mm	r mm						
HZ 680M LT	631.8	599.9	460	29.0	16.9	14.0	20	257.8	202.4	177370	5840	3.05	A
HZ 880M A	831.3	803.4	458	29.0	18.9	13.0	20	292.4	229.5	351350	8650	3.44	A
HZ 880M B	831.3	807.4	460	29.0	20.9	15.0	20	324.7	254.9	386810	9480	3.45	A
HZ 880M C	831.3	811.4	460	29.0	22.9	15.0	20	339.2	266.3	410830	10025	3.45	A
HZ 1080M A	1075.3	1047.4	454	29.0	19.6	16.0	35	371.1	291.3	696340	13185	3.87	A
HZ 1080M B	1075.3	1053.4	454	29.0	22.6	16.0	35	394.1	309.4	760600	14315	3.87	A
HZ 1080M C	1075.3	1059.4	456	29.0	25.7	18.0	35	436.1	342.4	839020	15715	3.87	A
HZ 1080M D	1075.3	1067.4	457	30.7	29.7	19.0	35	470.1	369.0	915420	17025	3.87	A
HZ 1180M A	1075.4	-	458	34.7	31.0	20.0	35	497.3	390.4	973040	17970	3.88	A
HZ 1180M B	1079.4	-	458	36.7	33.0	20.0	35	514.5	403.9	1022780	18785	3.89	A
HZ 1180M C	1083.4	-	459	38.7	35.0	21.0	35	543.6	426.8	1086840	19895	3.90	B
HZ 1180M D	1087.4	-	460	40.7	37.0	22.0	35	570.5	447.8	1144400	20795	3.91	B
Connectors													
RH 16	61.8		68.2			12.2		20.1	15.8	83	25		A
RZD 16	61.8		80.5					20.7	16.2	57	18		
RZU 16	61.8		80.5					20.4	16.0	68	18		
RH 20	67.3		79.2			14.2		25.2	19.8	122	33		B
RZD 18	67.3		85.0					23.0	18.0	78	22		
RZU 18	67.3		85.0					22.6	17.8	92	22		

